

@ the Bradbury

Special News & Events

Save the Date!

FEB
2

Groundhog Day

FEB
14

Scientists in the Spotlight

11:00 AM to 1:00 PM

Chat with scientists about visualizing radiation and aquatic biology. All ages welcome.

FEB
16

Presidents Day

FEB
17

Special Evening Lecture:
Understanding Climate
Change for All

5:30 PM to 7:00 PM

Learn how the museum, a scientist, and an artist are working together to shed light on climate change data.

FEB
19

Science On Tap

5:30 PM to 7:00 PM

@ UnQuarked Wine Room
145 Central Park Square
Los Alamos, New Mexico

Special Evening Lecture on Understanding Climate Change



Image by Cathy Wilson

February 17, 2014 – 5:30 to 7:00 PM

The ability to personally understand and have confidence in scientific data can be difficult and daunting for the general public. This hurdle is one of many that climate change scientists face while working to garner the public's acceptance of conclusions made from their research. Their recommendations regarding actions to prevent future climate change catastrophes also often go unsupported due to the information gap. To help make their data less opaque, the Bradbury Science Museum is working with a scientist and an artist to develop a new exhibit that will assist the public in understanding climate change research. The exhibit, titled "Climate Prisms," will provide users with insight into the science and implications of climate change through an interactive self-guided system of threads using artistic, literary, and scientific presentations. *(continued on page 4)*

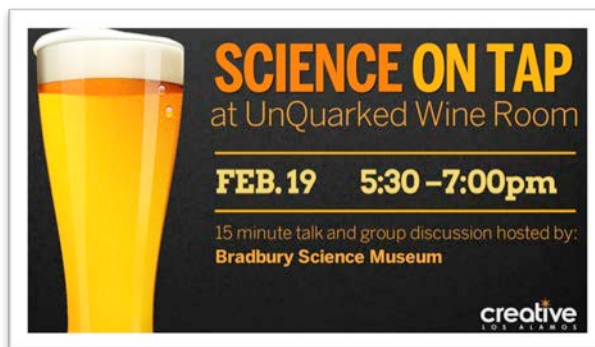


Join Us Every Second Saturday

Join us at the museum every second Saturday of the month for a program called *Scientist in the Spotlight* featuring Scientist Ambassadors that have recently been certified through the museum's Scientist Ambassador Academy program. In this activity, ambassadors will hang out on the museum floor for a couple hours initiating casual conversations with visitors about their favorite science, technology, engineering, or math (STEM) subject. On **Saturday, February 14 from 11:00 AM to 1:00 PM**, Verena Kleinrath will talk about visualizing radiation, and Jane Clements will discuss aquatic biology. These conversations are intended for all ages and include interactive hands-on activities that make learning more fun.

SCIENCE ON TAP

The next installment of "Science on Tap" will be held on **Thursday, February 19**, starting at 5:30 PM at UnQuarked Wine Room at 145 Central Park Square in downtown Los Alamos. **Harshini Mukundan**, research scientist at Los Alamos National Laboratory, will discuss the global threat of antibiotic-resistant bacteria. Mukundan asserts the unnecessary and uncontrolled use of antibiotics and the use of antibiotics in food animals to prevent, control and treat disease and for promoting growth are only some of the reasons for the rapid increase in antibiotic resistance today. "To prevent the world from entering a post-antibiotic era in the very near future, where even common infections can prove life threatening, urgent and immediate change is mandatory," says Mukundan. "The choices we make and the responsibility we show can slow down the emergence of antibiotic resistance and ensure the viability of these miracle drugs for future generations." To learn more about this and other science topics, join us every third Thursday of the month for "Science On Tap."



To subscribe to our monthly newsletter, visit the museum's website at:
www.lanl.gov/museum/events/events-mailing.shtml

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Newsletter



Virtual iPad Tours of Lab Facilities and Assets Now Available Inside the Museum

Thanks to advancing technology and a partnership with Los Alamos National Laboratory's Virtual Simulation BaseLine Experience (VISIBLE) team, visitors to the museum are now able to explore world changing science and technology at Los Alamos National Laboratory through innovative virtual iPad tours. Utilizing 3-dimensional models, users can investigate and "walk through" Laboratory facilities and archaeological sites that are restricted from the public or even "control" equipment being used on Mars. Current tours include:

- **LANSCE** - The Los Alamos Neutron Science Center (LANSCE) is a premier accelerator-based user facility for national security and fundamental science. At the heart of LANSCE is a powerful linear accelerator that accelerates protons to 84% the speed of light.
- **MaRIE** – MaRIE (Matter-Radiation Interactions In Extremes) is the Laboratory's planned flagship experimental facility intended to achieve transformational materials performance in extreme environments. MaRIE is designed to support key NNSA goals to understand the condition of the nuclear stockpile and to extend the life of U.S. nuclear warheads.
- **TA-55 Plutonium Facility** – At Los Alamos, virtually all plutonium operations occur within the Plutonium Facility at Technical Area 55 (TA-55). TA-55 is the nation's most modern plutonium science and manufacturing facility and it is the only fully operational, full capability plutonium facility in the nation.
- **DARHT** – The Dual-Axis Radiographic Hydrodynamic Test Facility (DARHT) supports a critical component of the Laboratory's primary mission: to ensure the safety, security, and effectiveness of nuclear weapons in our nation's stockpile. Los Alamos scientists built DARHT, the world's most powerful x-ray machine, to verify computer codes by analyzing full-scale nonnuclear weapon mockups as they implode.
- **Mars Rover** – Three Los Alamos technologies including Rover Power, ChemCam, and ChemMin are aboard the Mars Science Laboratory mission's Curiosity rover that has been exploring the surface of the Red Planet since August 2012.
- **Nake'muu** – Nake'muu Ruin is one of the best-preserved ruins on the Pajarito Plateau and is the only ancestral pueblo at Los Alamos that still retains its standing walls.

These tours are easy to operate by pointing the iPad camera at a corresponding marker. This opens a fly-over view of a facility or a 3-dimensional model that you can then manipulate and explore. Visit the museum to experience a tour first-hand!

SPECIAL LECTURE



Climate Prisms

Understanding Climate Change for All

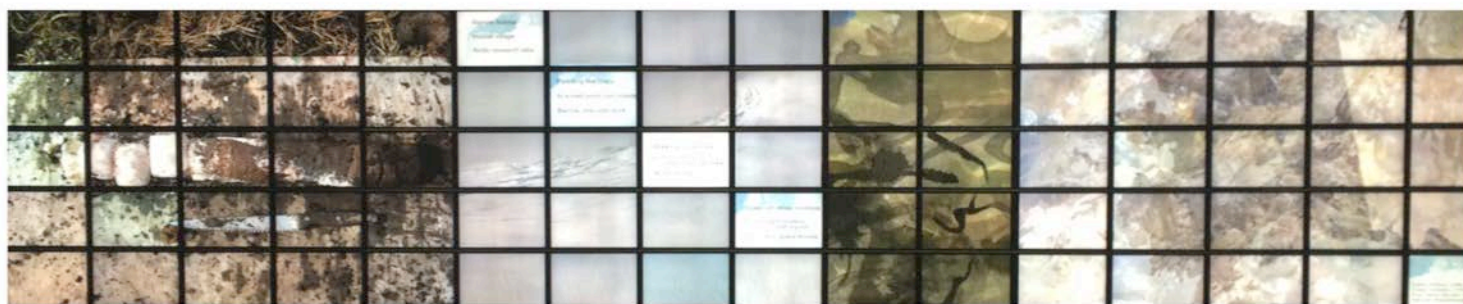


Image Credit: Francesca Samsel, Cathy Wilson, Hannah Wojciehowski

Tuesday, February 17
5:30 to 7:00 PM

“Climate Prisms,” the museum’s latest addition to their environment exhibit, intends to reinvent the way the public processes climate change data. Through a deep, multi-option interface, “Climate Prisms” will use art, poetry, images, videos, and scientific presentations that will enable users to follow threads they choose leading them toward their own self-constructed understanding and action plan.

Join us for this special lecture where three of the principal creators behind “Climate Prisms” will share techniques they are using to engage learners and provide an up-close view of the scientists and their work.

This event is being held in conjunction with the display of the American Library Association’s “Dust, Drought, and Dreams Gone Dry” travelling exhibit about the Dust Bowl era on the Southern Plains, currently at the Mesa Public Library in downtown Los Alamos, New Mexico.

Admission is free and open to the public.

Linda Deck

*Director,
Bradbury Science Museum*

Cathy Wilson

*Arctic Climate Change Scientist,
Los Alamos National Laboratory*

Francesca Samsel

*Visual Artist and Research Associate,
Center for Agile Technology,
University of Texas at Austin*

**Bradbury Science
Museum Auditorium**

Mark Your Calendars!

February 2015

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Groundhog Day	3	4	5	6 A	7
8	9	10	11	12	13 B	14 Scientists in the Spotlight 11 AM to 1 PM — Valentine's Day
15	16 Presidents Day	17 Evening Lecture: Climate Prisms: Understanding Climate Change for All 5:30 to 7:00 PM	18	19 Science on Tap @ UnQuarked Wine Room 5:30 to 7:00 PM	20 A	21
22	23	24	25	26	27 B	28

About the Museum

Bradbury Science Museum is located at 1350 Central Avenue in downtown Los Alamos, New Mexico. Approximately 40 interactive exhibits trace the history of the WWII Manhattan Project, highlight Los Alamos National Laboratory's current and historic research projects related to defense and technology, and focus on Laboratory research related to energy, environment, infrastructure, health and global security concerns.



Hours: Tuesday – Saturday: 10:00 AM to 5:00 PM, Sunday & Monday: 1:00 PM to 5:00 PM